



Gulf of Mexico Harmful Algal Bloom Bulletin

12 February 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: February 8, 2007

Conditions Report

A harmful algal bloom has been identified in patches from southern Sarasota to Collier Counties. Low impacts are expected today through Tuesday for Charlotte County, with patchy moderate impacts possible on Wednesday. Low impacts are expected for the lower keys gulf side on Tuesday, Wednesday, and Thursday, with low impacts expected for the lower keys ocean side on Monday and Tuesday. No other impacts are expected this week in the bloom region.

Analysis

The harmful algal bloom currently extends from southern Sarasota to Collier County; however, concentrations have decreased significantly alongshore over the past week. Samples were found to be not present from Pinellas to Sarasota County, with the exception of one high sample concentration at Gasparilla Fishing Pier on 2/8 (FWRI). Recent imagery (2/10) suggests slightly elevated chlorophyll concentrations, ranging from 3-8 $\mu\text{g/L}$ at 26°46'47"N 82°16'4"W in Charlotte County, just south of Gasparilla Fishing Pier. Continued sampling is recommended.

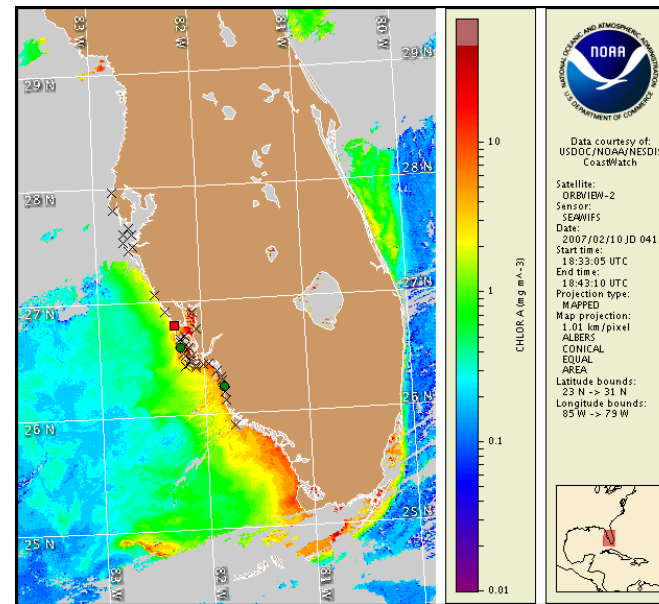
Easterly winds today and Tuesday will minimize coastal impacts; however, westerly winds on Wednesday may increase impacts for the Charlotte County region. Bloom intensification throughout the week is possible.

K. brevis was not present in samples throughout most of the Lower Keys region this past week. However, two offshore "low a" samples were detected northwest of the Lower Keys as well as one sample south of Key West on 2/9 (MML). Satellite imagery has been cloudy in this region; however, continued sampling is recommended. An area of elevated chlorophyll, with a max concentration of 11 $\mu\text{g/L}$, is visible northwest of Marquesas Keys around 24°53'35"N, 82°39'17"W. Westerly movement is possible throughout the week.

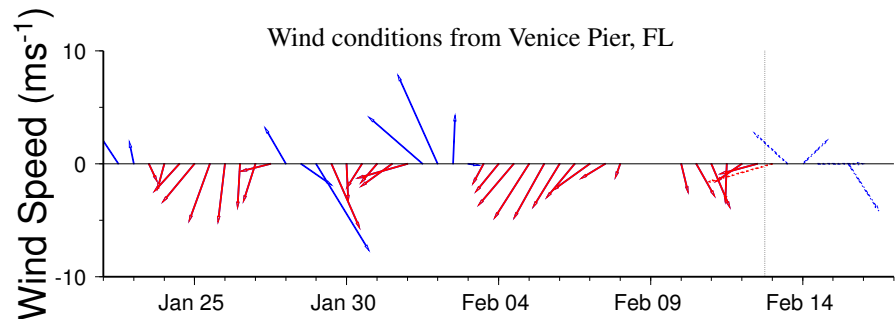
~Keller, Allen

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.



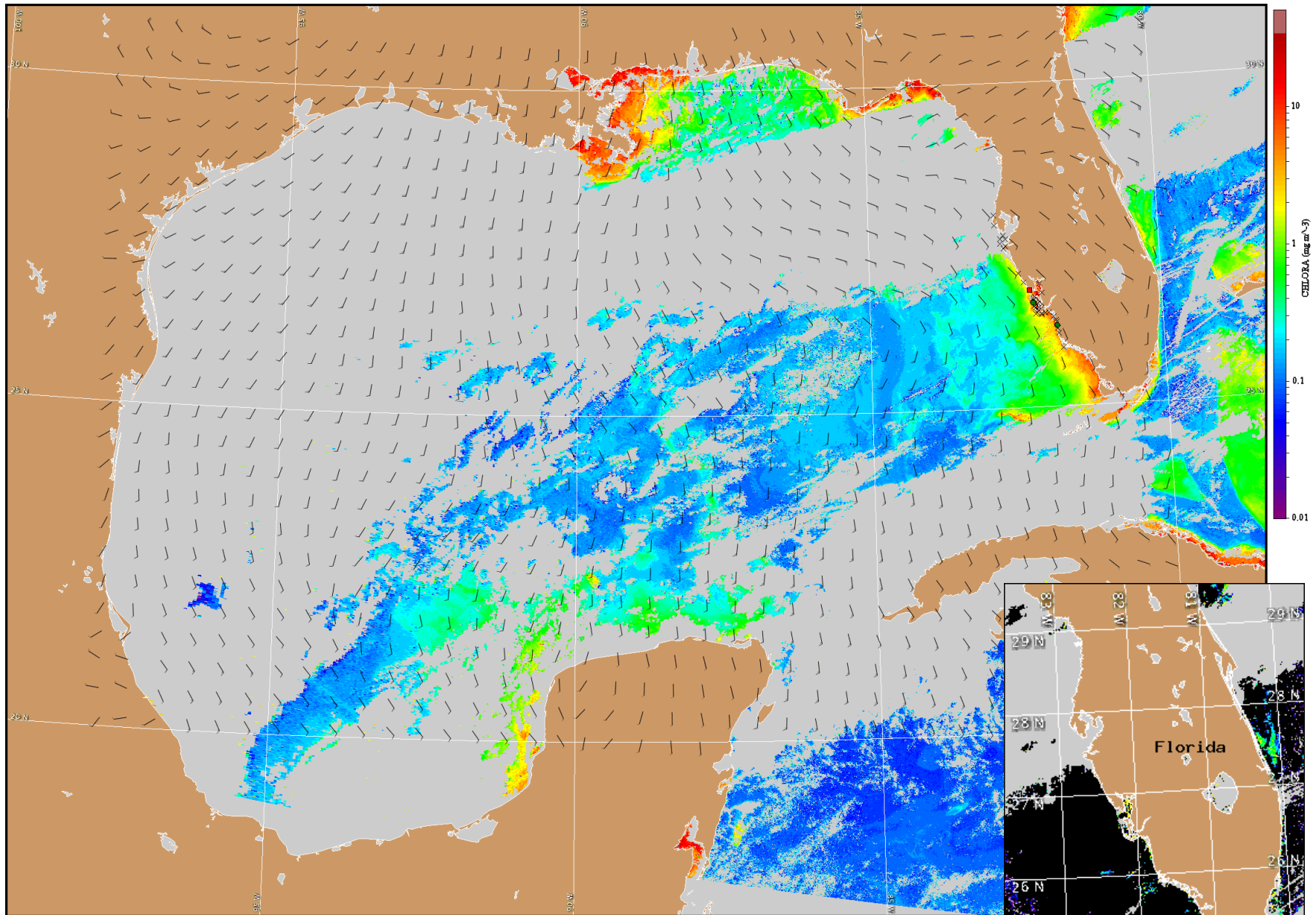
Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from February 2-8 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf



Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Easterly winds today (15-20 knots; 8-10 m/s), southwesterly winds on Tuesday (10-15 knots; 5-8 m/s), westerly winds on Wednesday, followed by northerly winds on Thursday (10-15 knots; 5-8 m/s).

Lower Keys: Northeasterly to southeasterly winds today (15-20 knots; 8-10 m/s). Southerly to southwesterly winds on Tuesday (10-15 knots; 5-8 m/s), with northwesterly winds on Wednesday (10-15 knots; 5-8 m/s). Northerly winds on Thursday (10-15 knots; 5-8 m/s).



Satellite chlorophyll image and forecast winds for February 13, 2007 12Z with cell concentration sampling data from February 2-8 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf

Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).

